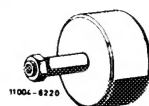


## 05—410 Removal and installation of helical gear shaft

### Special tools

Impact puller for bearing bolt (basic unit)



116 589 20 33 00

Threaded bolt M 6 x 150 for impact puller



116 589 02 34 00

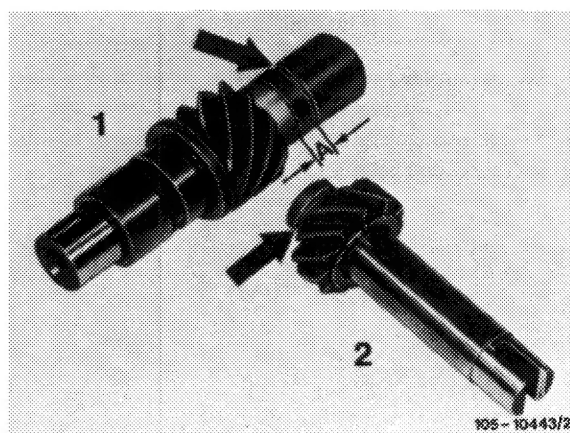
### Note

The oil pump drive comprises the **intermediate gear shaft (1)** and the **helical gear shaft (2)**, and may be replaced in sets only (05—412).

In the event of repairs, install oil pump drive part no. 110 050 02 06:

Intermediate gear (1): 9 teeth, groove (arrow), dimension A = 5 mm

Helical gear (2): 12 teeth, groove (arrow).



### Standard installation oil pump drive 110 050 02 06

Engine	Engine end no.	
	from	to
110.921 — 10 —	009381	009738
— 12 —	039115	040762
110.922 — 10 —	018226	019645
and starting	033340 (1. 1978)	
— 12 —	027657	030434
and starting	055136 (1. 1978)	
110.923 — 10 —	010452 (1. 1978)	
— 12 —	012890 (1. 1978)	
110.931 — 10 —	001071	001080
— 12 —	000137	000138
110.932 — 10 —	002861	003151
and starting	007879 (1. 1978)	
— 12 —	000432	000491
and starting	001954 (1. 1978)	
110.981 — 10 —	010491	010636
— 12 —	022258	022809
110.982 — 10 —	000547	000704
— 12 —	001196	001528
110.983 — 10 —	013511	014341
— 12 —	035853	038811
110.984 — 10 —	005137 (1. 1977)	
— 12 —	013900 (1. 1977)	

110.985 — 10 —	002060 (1. 1977)
— 12 —	009179 (1. 1977)
110.986 — 10 —	000461 (1. 1977)
— 12 —	000991 (1. 1977)

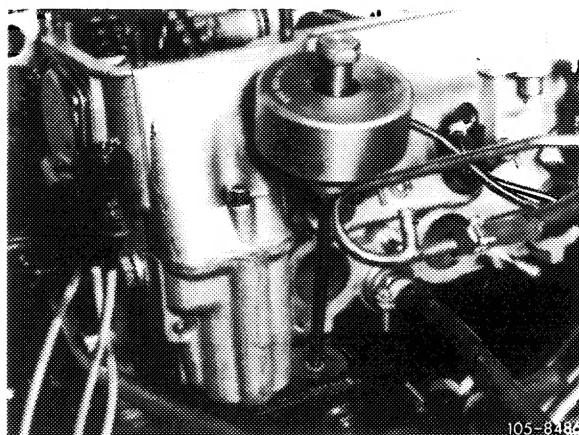
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All exchange engines starting unit no. 464 130 are provided with oil pump drive part no. 110 050 02 06.

## Removal

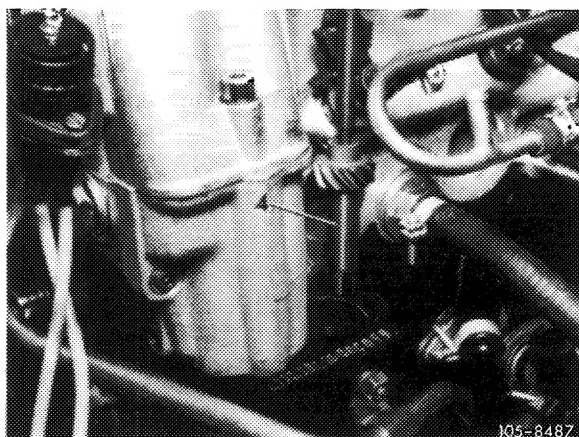
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- 1 Remove intake pipe (09—400).
- 2 Knock out closing cover by means of impact puller (6 mm threaded bolt).



- 3 Pull out helical gear shaft (4) in upward direction by means of an M-6 screw.

**Note:** The bearing body together with bearing bushing for helical gear shaft can be knocked out in upward direction with intermediate gear shaft removed.



## Installation

4 Guide in helical gear shaft (4).

Oil pump drive shaft (9) must engage in dog claws of helical gear shaft (4).

5 Knock in new cover (2) with a pertinent sleeve (approx. 35 mm dia.).

6 Install intake manifold with a new gasket (09—400).

### Oil pump drive

- 1 Crankcase
- 2 Cover with stop pin
- 3 Intermediate gear shaft of oil pump drive
- 4 Helical gear shaft of oil pump drive
- 5 Bearing bushing
- 6 Bearing
- 7 Bearing bushing of oil pump housing
- 8 Oil pump housing
- 9 Oil pump drive shaft

